2022 February 7 4:59 PM - SCPSC - ND-2021-44-E -



Presentation before the South Carolina Public Service Commission February 3, 2022

Commission Docket: 2021-ND-44-E

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SCPSC-

ND-2021-44-E

# **Participants**











John Morrison
President & CEO
E4 Carolinas



Hon. Jeffrey S.

Merrifield

Partner & Global
Energy Section
Leader,
Pillsbury Law &
Board Chair

Weston Adams,
Partner & Energy
Practice Group
Co-Chair,
Nelson Mullins &
Board Member

Bryan Stone
President,
Lockhart Power &
Board Member

Bonnie Loomis

Managing Director-SC

E4 Carolinas

# **The Carolinas Energy Economy**











### **NUCLEAR**

Largest concentration of generating capacity in the country & nuclear service companies in the world

# **HIGHER EUCATION**

More universities with energy education & research than any single state in the country

# **RESEARCH INSTITUTES**

Globally recognized research institutes engaged in energy research

# **UTILITIES**

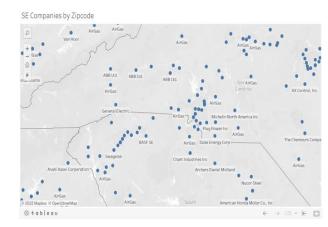
Largest power
distribution company in
the country plus a
public power generator
and more than 100
electric cooperatives



# **The Carolinas Energy Economy**









### MANUFACTURING

Largest concentration of energy manufacturing companies in the world.

# **ALTERNATIVE FUEL TRANSPORTATION**

Significant automotive manufacturing sector that is moving rapidly toward EV production.

### **HYDROGEN**

One of the top five clusters of organizations with a hydrogen and fuel cell interest in the U.S.

RENEWABLES

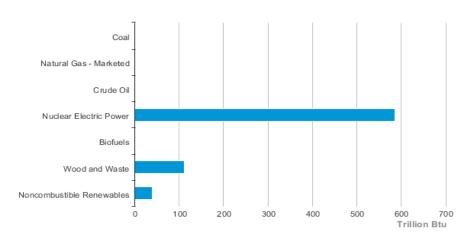
7 4:59 PM
Largest solar energy economy in the Eastern US of the second sec & world's most-advanced wind-turbine drive train testing facility.



# **South Carolina: Energy Profile**

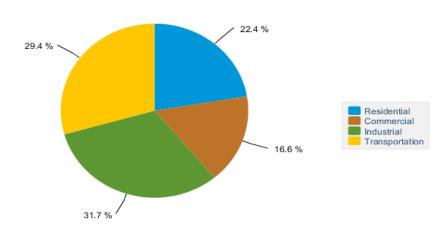
https://www.eia.gov/state/?sid=SC

### South Carolina Energy Production Estimates, 2019

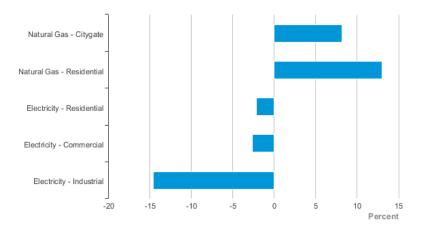


eia Source: Energy Information Administration, State Energy Data System

### South Carolina Energy Consumption by End-Use Sector, 2019

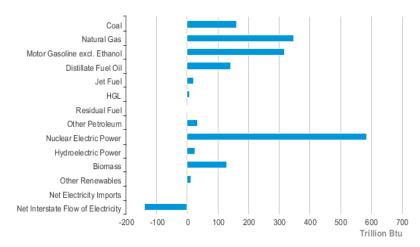


### South Carolina Price Differences from U.S. Average, Most Recent Monthly



Source: Energy Information Administration, Petroleum Marketing Monthly; Natural Gas Monthly; Electric Power Monthly

### South Carolina Energy Consumption Estimates, 2019



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# 140+ member companies in all sectors:

- Utilities
- Service Providers
- Manufacturing & EPCs
- Universities & Research
- Innovators & Start-Ups





# **Utilities**

# **Members**



















# **Members**











**K&L GATES** 

















# Studsvik









**MasTec** 

Honeywell

# 







# **TOSHIBA**Leading Innovation >>>









# **Members**















THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL



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# The vision of our Members:

E4 Carolinas envisions the Carolinas attracting and retaining the world's foremost energy companies, leaders and innovators.



# **Member-Driven Task Forces:**

- Economic Development
- Policy
- Workforce Development
- Communications
- Innovation
- SC Clean Energy Industries



# Member-Informed Research:

- Alternative fuel vehicles
- Grid Hardware
- Green Hydrogen
- Advanced Nuclear Technologies
- Workforce Diversity
- Energy Awareness



# **Task Forces**

### WORKFORCE DEVELOPMENT

Emerging & Executive Leadership programs
Leadership Alumni Network
Energy Bootcamp

### **ECONOMIC DEVELOPMENT**

Alternative Fuel Vehicles
Hydrogen
Grid Hardware
Energy Storage

### **POLICY**

Washington D.C. Fly-In Energy Briefings and Updates Energy Policy Summit



### INNOVATION

Digital Technology Webinars
Innovation Conference & Seminars
Energy Risk Management

### COMMUNICATIONS

Energy Communicators Network
Energy News Weekly
Member Networking Events

### SC CLEAN ENERGY INDUSTRIES

SC Clean Energy Legislative/Regulatory Update
SC Clean Energy Conference
Southeast Energy Law Seminar



# **US Department of Energy Grants**



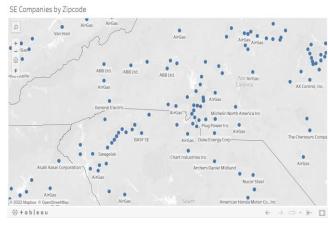
### **AFVs & STORMS**

Project will enhance Carolinas alternative fuel vehicles (AFVs) fueling & fleet and resilience through planning for the use of AFVs for storm evacuations & emergency response.



### **ENERGY HARDWARE CLUSTER**

Project will create a regional energy hardware cluster innovation & accelerator ecosystem to enhance commercialization opportunities for energy startups & new ventures originating within an established company.



### **GREEN HYDROGEN**

Project will identify the green hydrogen energy value chain in the Southeast Region & opportunities for green hydrogen to serve existing and new markets.



# **US Department of Commerce Grant**



# ADVANCED NUCLEAR TECHNOLOGY ECONOMIC DEVELOPMENT

Project will create a plan for the creation of public-private partnerships, high-quality jobs & capital investment through the advanced nuclear technology industry.



# **Corporate & Philanthropic Grants**





Ground-breaking and transformative program to promote energy careers to HBCU students in order to increase diversity, racial equity and inclusion in the region's energy workforce.



**KEEPING YOU ENERGIZED** 

Project will produce a resource platform containing short "stories" describing the electric power system and utility business models that have evolved and operate today.





# **THANK YOU!**

www.e4carolinas.org

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# **Questions?**











John Morrison President & CEO **E4 Carolinas** 



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